

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. ASMEX.72CP2D3CD	APPLICATION NO. Unknown
	APPLICANT Halpin et al.	
	FILING DATE Herewith	GROUP Unknown

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
N	1.	3,627,590	12/14/71	Mammel			
N	2.	4,261,762	4/14/81	King			
N	3.	4,313,783	2/2/82	Davies et al.			
N	4.	4,403,567	9/13/83	DaCosta et al.			
N	5.	4,457,359	7/3/84	Holden			
N	6.	4,458,746	7/10/84	Holden et al.			
N	7.	4,508,161	04/02/85	Holden			
N	8.	4,512,391	04/23/85	Harra			
N	9.	4,522,697	06/11/85	Dimock et al.			
N	10.	4,523,985	06/18/85	Dimock			
N	11.	4,527,620	07/09/85	Pedersen et al.			
N	12.	4,535,834	08/20/85	Turner			
N	13.	4,535,835	08/20/85	Holden			
N	14.	4,537,244	08/27/85	Holden			
N	15.	4,542,298	09/17/85	Holden			
N	16.	4,565,601	01/21/86	Kakehi et al.			
N	17.	4,567,938	02/04/86	Turner			
N	18.	4,603,466	08/05/86	Morley			
N	19.	4,654,509	03/31/87	Robinson et al.			
N	20.	4,709,655	12/01/87	Van Mastrigt			
N	21.	4,724,621	02/16/88	Hobson et al.			
N	22.	4,789,771	12/6/88	Robinson et al.			
N	22 23	4,790,262	12/13/88	Nakayama et al.			
N	23 24	4,860,687	08/29/89	Frijlink			
N	24 25	4,911,812	03/27/90	Kudo et al.			

EXAMINER <i>R</i>	DATE CONSIDERED 7-8-05
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✓	25.26	4,923,584	05/08/90	Bramhall, Jr. et al.			
✓	26.	4,949,783	08/21/90	Lakios et al.			
✓	27.	4,958,061	09/18/90	Wakabayashi et al.			
✓	28.	5,027,746	07/02/91	Frijlink			
✓	29.	5,033,407	07/23/91	Mizuno et al.			
✓	30.	5,033,538	07/23/91	Wagner et al.			
✓	31.	5,090,900	02/25/92	Rudolf et al.			
✓	32.	5,096,536	03/17/92	Cathey, Jr.			
✓	33.	5,133,284	07/28/92	Thomas et al.			
✓	34.	5,148,714	9/22/92	McDiarmid			
✓	35.	5,155,062	10/13/92	Coleman			
✓	36.	5,156,820	10/20/92	Wong et al.			
✓	37.	5,160,544	11/03/92	Garg et al.			
✓	38.	5,180,000	01/19/93	Wagner et al.			
✓	39.	5,199,483	04/06/93	Bahng			
✓	40.	5,215,619	06/01/93	Cheng et al.			
✓	41.	5,221,403	06/22/93	Nozawa et al.			
✓	42.	5,230,741	07/27/93	van de Ven et al.			
✓	43.	5,238,499	08/24/93	van de Ven et al.			
✓	44.	5,248,370	09/28/93	Tsui et al.			
✓	45.	5,267,607	12/07/93	Wada			
✓	46.	5,287,914	02/22/94	Hughes			
✓	47.	5,290,381	03/01/94	Nozawa et al.			
✓	48.	5,292,393	03/08/94	Maydan et al.			
✓	49. 50	5,298,465	03/29/94	Levy			

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
R	50	51 5,308,645	05/03/94	Zachman et al.			
R	51.	5,318,634	06/07/94	deBoer et al.			
R	52.	5,320,982	06/14/94	Tsubone et al.			
R	53.	5,322,565	06/21/94	Zachman et al.			
R	54.	5,332,442	07/26/94	Kubodera et al.			
R	55.	5,343,012	08/30/94	Hardy et al.			
R	56.	5,343,938	09/06/94	Schmidt			
R	57.	5,350,479	09/27/94	Collins et al.			
R	58.	5,352,294	10/04/94	White et al.			
R	59.	5,354,382	10/11/94	Sung et al.			
R	60.	5,356,476	10/18/94	Foster et al.			
R	61.	5,370,739	12/06/94	Foster et al.			
R	62.	5,382,311	01/17/95	Ishikawa et al.			
R	63.	5,383,971	01/24/95	Selbrede			
R	64.	5,387,289	02/07/95	Schmitz et al.			
R	65.	5,393,349	02/28/95	Ohkase			
R	66.	5,403,401	04/04/95	Haafkens et al.			
R	67.	5,445,677	08/29/95	Kawata et al.			
R	68.	5,446,824	08/29/95	Moslehi			
R	69.	5,456,757	10/10/95	Aruga et al.			
R	70.	5,458,687	10/17/95	Shichida et al.			
R	71.	5,462,603	10/31/95	Murakami			
R	72.	5,467,220	11/14/95	Xu			
R	73.	5,484,011	1/16/96	Tepman et al.			
R	74	15 5,522,131	06/04/96	Steger			

EXAMINER <u>Ra</u>	DATE CONSIDERED <u>7-8-05</u>
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U.S. PATENT DOCUMENTS							
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N	75. 76	5,645,646	7/8/97	Beinglass et al.			
N	76.	5,656,093	8/1997	Burkhart et al.			
N	77.	5,685,906	11/11/97	Dietze et al.			
N	78.	5,738,165	4/1998	Imai			
N	79.	6,053,982	04/25/00	Halpin et al.			
N	80.	6,113,702	09/05/00	Halpin et al.			
N	81.	6,203,622	03/20/01	Halpin et al.			
N	82.	6,343,183	1/2002	Halpin et al.			
N	83.	6,454,865	09/2002	Goodman et al.			
N	84.	6,454,866	09/24/02	Halpin et al.			
N	85. 86	6,491,757	12/10/02	Halpin et al.			

FOREIGN PATENT DOCUMENTS								
EXAMINE R INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLAS S	SUBCLA SS	TRANSLATION	
							YES	NO
N	86.	GB 2181458A		United Kingdom NOT AVAILABLE			X	
N	87.	JP 62020308	1/28/87	JP				
N	88.	JP 63084017	4/14/88	JP				
N	89.	JP 63285925	11/22/88	JP				
N	90.	EP 0 445 596	2/21/91	EPO				
N	91.	0 448 346 A1	9/25/91	Europe				
N	92.	0452779A2	10/23/91	Europe				
N	93.	0 592 017 A2	4/13/94	Europe				
N	94.	0 651 424 A2	5/3/95	Europe				
N	95.	0657918A2	6/14/95	Europe				

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